

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (Currently Amended) A three-phase alternating current electric generator for a vehicle comprising:

an A-phase generating coil, a B-phase generating coil and a C-phase generating coil, the A-phase, B-phase and C-phase generating coils are connected in Y-shape connection to each other; and

a rectifier assembly for rectifying alternating current outputs of the A-phase, B-phase and C-phase generating coils,

~~characterized in that wherein~~ each of the A-phase, B-phase and C-phase generating coils ~~has comprises~~ a non neutral side coil terminal and a neutral side coil terminal, and the rectifier assembly ~~has comprises~~ a neutral diode for making neutral point connection, and the neutral diode ~~has comprises~~ a diode chip, a package for sealing the diode chip and a drawing-out terminal drawn out from the package, the drawing-out terminal comprises a first, second and third connecting terminals commonly connected to each other, and the neutral side coil terminal of the A-phase generating coil is connected to the first connecting terminal, and the neutral side coil terminal of the B-phase generating coil is connected to the second connecting terminal, and the neutral side coil terminal of the C-phase generating coil is connected to the third connecting terminal.

2. (Canceled)

3. (Currently Amended) The three-phase alternating current electric generator for a vehicle according to claim 1, wherein the rectifier assembly ~~has~~ further comprises a positive side neutral diode and a negative side neutral diode, and the positive side neutral diode ~~has~~ comprises a positive side diode chip and an anode drawing-out terminal connected to an anode of the positive side diode chip, the anode drawing-out terminal ~~has~~ comprises a first, second and third connecting terminals commonly connected to each other, and the negative side neutral diode ~~has~~ comprises a negative side diode chip and a cathode drawing-out terminal connected to a cathode of the negative side diode chip, the cathode drawing-out terminal ~~has~~ comprises a first, second and third connecting terminals commonly connected to each other, and the neutral side coil terminal of the A-phase generating coil is connected to each of the first connecting terminals of the anode drawing-out terminal and the cathode drawing-out terminal, and the neutral side coil terminal of the B-phase generating coil is connected to each of the second connecting terminals of the anode drawing-out terminal and the cathode drawing-out terminal, and the neutral side coil terminal of the C-phase generating coil is connected to each of the third connecting terminals of the anode drawing-out terminal and the cathode drawing-out terminal.

4. (Original) The three-phase alternating current electric generator for a vehicle according to claim 3, wherein the neutral side coil terminal of the A-phase generating coil is

nipped and connected between the respective first connecting terminals of the anode drawing-out terminal and the cathode drawing-out terminal, and the neutral side coil terminal of the B-phase generating coil is nipped and connected between the respective second connecting terminals of the anode drawing-out terminal and the cathode drawing-out terminal, and the neutral side coil terminal of the C-phase generating coil is nipped and connected between the respective third connecting terminals of the anode drawing-out terminal and the cathode drawing-out terminal.

5. (Currently Amended) The three-phase alternating current electric generator for a vehicle according to claim 1, wherein the neutral diode has further comprises two diode chips sealed by the package, ~~and a resin package for sealing both these two diode chips, a drawing-out terminal drawn out from the resin package~~, and the drawing-out terminal is connected to the anode of one diode chip among the two diode chips and the cathode of the other diode chip, ~~and the first, second and third connecting terminals are formed in the drawing-out terminal.~~

6. (Withdrawn) A three-phase alternating current electric generator for a vehicle comprising:

an A-phase generating coil, a B-phase generating coil and a C-phase generating coil, the A-phase, B-phase and C-phase generating coils are connected in \triangle -shape connection to each other, each of the A-phase, B-phase and C-phase generating coils has a first coil terminal and a second coil terminal; and

a rectifier assembly for rectifying alternating current outputs of the A-phase, B-phase and C-phase generating coils, the rectifier assembly has a first, second and third diode pairs,

characterized in that each of the first, second and third diode pairs has first and second connecting terminals commonly connected to each other, and the second coil terminal of the A-phase generating coil is connected to the first connecting terminal of the first diode pair, and the first coil terminal of the B-phase generating coil is connected to the second connecting terminal of the first diode pair, and the second coil terminal of the B-phase generating coil is connected to the first connecting terminal of the second diode pair, and the first coil terminal of the C-phase generating coil is connected to the second connecting terminal of the second diode pair, and the second coil terminal of the C-phase generating coil is connected to the first connecting terminal of the third diode pair, and the first coil terminal of the A-phase generating coil is connected to the second connecting terminal of the third diode pair.

7. (Withdrawn) The three-phase alternating current electric generator for a vehicle according to claim 6, wherein each of the first, second and third diode pairs has a diode chip, a resin package for sealing the diode chip, and a drawing-out terminal drawn out from the resin package, and the first and second connecting terminals are formed in this drawing-out terminal in each of the first, second and third diode pairs.

8. (Withdrawn) The three-phase alternating current electric generator for a vehicle according to claim 6, wherein each of the first, second and third diode pairs of the rectifier

assembly has a positive side diode and a negative side diode, and each of the positive side diode has an anode drawing-out terminal having first and second connecting terminals commonly connected to each other, and each of the negative side diode has a cathode drawing-out terminal having first and second connecting terminals commonly connected to each other, and the first connecting terminal of the anode drawing-out terminal and the first connecting terminal of the cathode drawing-out terminal in said first diode pair are connected together with the second coil terminal of the A-phase generating coil, and the second connecting terminal of the anode drawing-out terminal and the second connecting terminal of the cathode drawing-out terminal in the first diode pair are connected together with the first coil terminal of the B-phase generating coil, and the first connecting terminal of the anode drawing-out terminal and the first connecting terminal of the cathode drawing-out terminal in the second diode pair are connected together with the second coil terminal of the B-phase generating coil, and the second connecting terminal of the anode drawing-out terminal and the second connecting terminal of the cathode drawing-out terminal in the second diode pair are connected together with the first coil terminal of the C-phase generating coil, and the first connecting terminal of the anode drawing-out terminal and the first connecting terminal of the cathode drawing-out terminal in the third diode pair are connected together with the second coil terminal of the C-phase generating coil, and the second connecting terminal of the anode drawing-out terminal and the second connecting terminal of the cathode drawing-out terminal in the third diode pair are connected together with the first coil terminal of the A-phase generating coil.

9. (Withdrawn) The three-phase alternating current electric generator for a vehicle according to claim 8, wherein the second coil terminal of the A-phase generating coil is nipped and connected between the first connecting terminal of the anode drawing-out terminal and the first connecting terminal of the cathode drawing-out terminal in the first diode pair, and the first coil terminal of the B-phase generating coil is nipped and connected between the second connecting terminal of the anode drawing-out terminal and the second connecting terminal of the cathode drawing-out terminal in the first diode pair, and the second coil terminal of the B-phase generating coil is nipped and connected between the first connecting terminal of the anode drawing-out terminal and the first connecting terminal of the cathode drawing-out terminal in the second diode pair, and the first coil terminal of the C-phase generating coil is nipped and connected between the second connecting terminal of the anode drawing-out terminal and the second connecting terminal of the cathode drawing-out terminal in the second diode pair, and the second coil terminal of the C-phase generating coil is nipped and connected between the first connecting terminal of the anode drawing-out terminal and the first connecting terminal of the cathode drawing-out terminal in the third diode pair, and the first coil terminal of the A-phase generating coil is nipped and connected between the second connecting terminal of the anode drawing-out terminal and the second connecting terminal of the cathode drawing-out terminal in the third diode pair.

10. (Withdrawn) The three-phase alternating current electric generator for a vehicle according to claim 6, wherein each of the first, second and third diode pairs has two diode chips,

AMENDMENT UNDER 37 C.F.R. § 1.111
U.S. Application No. 10/500,582

a resin package for sealing these two diode chips, and a drawing-out terminal drawn out from the resin package, and the drawing-out terminal is connected to the anode of one diode chip among said two diode chips and the cathode of the other diode chip, and said first and second connecting terminals are formed in the drawing-out terminal.